

ABSTRACT OF THE DISCLOSURE

A semiconductor device is formed of a wiring layer having a plurality of divided wirings, and a plurality of non-wiring layers. The plurality of the divided  
5 wirings extend in a predetermined direction. The plurality of the divided wirings are divided from each other in a direction perpendicular to the extending direction. The wiring layer is formed of a plurality of grains and formed on a semiconductor substrate.  
10 Each of the divided wirings has a width smaller than the size of the grains forming the wiring layer. Each of the plurality of the non-wiring layers is formed between the plurality of the divided wirings of the wiring layer. The non-wiring layers extend in the  
15 direction in which the plurality of divided wirings extend.